

LISTING OF CLAIMS

1. (ORIGINAL) A method of executing a remote procedure (214) in a remote processor (220) from a client process (204) executed in a local processor (218), comprising the steps of:

accepting a remote procedure call identifying the remote procedure (214) including a global remote procedure locator;

translating the remote procedure call into a CGI-compatible information transfer protocol;

transmitting the translated remote procedure call to the remote processor (220);

interpreting the translated remote procedure call into a remote procedure-compatible format; and

invoking the remote procedure (214) in the remote processor (220).

2. (CURRENTLY AMENDED) The method of claim 1, wherein the remote procedure call further comprises a remote procedure input value and the remote procedure is invoked to produce at least one remote procedure output value from the remote procedure input value.

3. (ORIGINAL) The method of claim 2, further comprising the steps of:

translating a remote procedure response having the remote procedure output value into the CGI-compatible information transfer protocol;

transmitting the remote procedure response to the local processor (218);

interpreting the remote procedure response to a client process-compatible format; and

providing the translated remote procedure response to the client process (204).

4. (ORIGINAL) The method of claim 2, wherein the global remote procedure locator is a universal resource located (URL).

5. (ORIGINAL) The method of claim 2, wherein the CGI-compatible information transfer protocol is a hypertext transfer protocol (HTTP).

6. (ORIGINAL) The method of claim 2, wherein the translated remote procedure call is transmitted to the remote process via the Internet.

7. (ORIGINAL) The method of claim 2, wherein the remote procedure call is translated into a CGI-compatible information transfer protocol via a first application program interface (API), and the translated remote procedure call is interpreted by a second application program interface (API).

8. (ORIGINAL) A method of executing a remote procedure (214) in a remote processor (220) from a client process (204) executed in a local processor (218), comprising the steps of:

accepting a remote procedure call having information identifying the remote procedure (214)

including a global remote procedure locator;

translating the remote procedure call into a CGI-compatible information transfer protocol;

transmitting the translated remote procedure call to the remote processor (220);
and

receiving a remote procedure response at the local processor (218).

9. (ORIGINAL) The method of claim 8, wherein the remote procedure call further comprises a remote procedure input value, and the remote procedure response comprises a remote procedure output value generated by invoking the remote procedure.

10. (ORIGINAL) The method of claim 9, wherein the global remote procedure locator is a universal resource locator (URL).

11. (ORIGINAL) The method of claim 9, wherein the CGI-compatible information transfer protocol is a hypertext transfer protocol.

12. (ORIGINAL) The method of claim 9, wherein the translated remote procedure call is transmitted to the remote processor (220) via the Internet.

13. (ORIGINAL) A method of executing a remote procedure (214) from a client process (204) executed in a local processor (218), comprising the steps of:

accepting a remote procedure call, the remote procedure call transmitted in a CGI-compatible information transfer protocol, the remote procedure call having information identifying the remote procedure (214) including a global remote procedure locator;

interpreting the remote procedure call into a remote procedure-compliant format;
and

invoking the remote procedure (214) in the remote processor (220).

14. (ORIGINAL) The method of claim 13, wherein the remote procedure call comprises at least one remote procedure input value, and the remote procedure is invoked to produce at least one remote procedure output value from the remote procedure input value.

15. (ORIGINAL) The method of claim 14, further comprising the steps of:

interpreting a remote procedure response to have the remote procedure output comply with the CGI-compatible information transfer protocol; and

transmitting the remote procedure response so that the remote procedure output value becomes available to the client process (204).

16. (ORIGINAL) The method of claim 14, wherein the remote procedure call is transmitted in a hypertext transfer protocol (HTTP).

17. (ORIGINAL) The method of claim 14, wherein the remote procedure call is transmitted via the Internet.

18. (ORIGINAL) A gateway for executing a remote procedure (214) in a remote processor (220) from a client processor (204) executed in a local processor (218), comprising:

a client application program interface (206);

for translating a remote procedure call having information identifying the remote procedure (214) including a global remote procedure locator into a CGI-compatible information transfer protocol, for transmitting the translated remote procedure call to the remote processor (220), and for interpreting a remote procedure response into a client process-compatible format;

an agent application program interface (212);

for interpreting a remote procedure call translated by the client application program interface (206) into a remote procedure-compatible format, for invoking the remote procedure (214) in the remote processor (220) to produce a remote procedure response, and for translating a remote procedure response into the CGI-compatible information transfer protocol; and

wherein the client application program interface (206) is communicatively coupled to the agent application program interface (212).

19. (ORIGINAL) The apparatus of claim 18, wherein:

the remote procedure call further includes at least one remote procedure input value; the remote procedure response includes at least one remote procedure output

value; and

the remote procedure is invoked to produce the remote procedure output value from the remote procedure input value.

20. (ORIGINAL) The apparatus of claim 19, wherein the global remote procedure locator is a universal resource locator (URL).

21. (ORIGINAL) The apparatus of claim 19, wherein CGI-compatible information transfer protocol is a hypertext transfer protocol (HTTP).

22. (ORIGINAL) The apparatus of claim 19, wherein the client application program interface (206) is communicatively coupled to the agent application program interface (212) via an Internet connection.

23. (ORIGINAL) The apparatus of claim 19, wherein the client application program interface (206) further comprises a stub for accepting the remote procedure call from the client process (204) and for providing the remote procedure response to the client process (204).

24. (ORIGINAL) The apparatus of claim 19, wherein the agent application program interface (212) further comprises a shell for providing the interpreted remote procedure call translated by the client application program interface (206) to the remote procedure (214), and for accepting the remote procedure response having the remote procedure output value.

25. (ORIGINAL) A gateway for executing a remote procedure (214) in a remote processor (220) from a client process (204) executed in a local processor (218), comprising:

a client application program interface (206) for translating a remote procedure call having information identifying the remote procedure (214) including a global remote procedure locator into a CGI-compatible information transfer protocol for transmitting

the translated remote procedure call to the remote processor (220), for interpreting a remote procedure response into a client process compatible format; and

wherein the client application program interface (206) is communicatively coupleable with an agent application program interface (212) for interpreting a remote procedure call translated by the client application program interface (206) into a remote procedure-compatible format, for invoking the remote procedure (214) in the remote processor (220) to produce a remote procedure response; and for translating the remote procedure response into the CGI-compatible information transfer protocol.

26. (ORIGINAL) The apparatus of claim 25, wherein:

the remote procedure call further includes at least one remote procedure input value; the remote procedure response includes at least one remote procedure output value; and

the remote procedure is invoked to produce the remote procedure output value from the remote procedure input value.

27. (ORIGINAL) The apparatus of claim 26, wherein the CGI-compatible information transfer protocol is a hypertext transfer protocol (HTTP).

28. (ORIGINAL) A gateway for executing a remote procedure in a remote processor (220) from a client process (204) executed in a local processor (218), comprising:

an agent application program interface (212) for interpreting a remote procedure call translated by a client application program interface (206) into a remote procedure-compatible format, for invoking the remote procedure (214) in the remote processor (220) to produce a remote procedure response, and for translating a remote procedure response into a CGI-compatible information transfer protocol; and

wherein the agent application program interface (212) is communicatively

coupled to a client application program interface (206) for translating a remote procedure call having information identifying the remote procedure (214) including a global remote procedure locator into a CGI-compatible information transfer protocol for transmitting the translated remote procedure call to the remote processor (220); and for interpreting a remote procedure response into a client process-compatible format.

29. (ORIGINAL) A method of defining a client process (204) having a remote procedure (214) remotely executable in a remote processor (220) from the client process (204) executed in a local processor (218), comprising the steps of:

accepting remote procedure definition information including a global remote procedure locator and information identifying the remote procedure (214);

compiling a stub for communicating between the client process (204) and a client application program interface (206) (API) from the remote procedure information;

compiling a shell for communicating between the remote procedure (214) and an agent API (212) from the remote procedure information;

compiling an API procedure from the remote procedure definition information;

compiling a client API from the client process (204), the API procedure, and the client stub; and

compiling an agent API (212) from the remote procedure (214), the API procedure, and the shell.

30. (ORIGINAL) The method of claim 29, wherein the remote procedure definition information further comprises at least one remote procedure input attribute and at least one remote procedure output attribute.

31. (ORIGINAL) An apparatus for executing a remote procedure (214) in a remote processor (220) from a client process (204) executed in a local processor (218),

comprising:

means for accepting a remote procedure call having at least one remote procedure input value, and information identifying the remote procedure (214) including a global remote procedure locator;

means for translating the remote procedure call into a CGI-compatible information transfer protocol;

means for transmitting the translated remote procedure call to the remote processor (220);

means for interpreting the translated remote procedure call into a remote procedure-compatible format; and

means for invoking the remote procedure (214) in the remote processor (220) to produce at least one remote procedure output value from the remote procedure input value.

32. (ORIGINAL) The apparatus of claim 24, further comprising:

means for translating a remote procedure response having the remote procedure output value into the CGI-compatible information transfer protocol;

means for transmitting the remote procedure response to the local processor (218);

means for interpreting the remote procedure response to a client process-compatible format; and

means for providing the translated remote procedure response to the client process (204).

33. (ORIGINAL) The apparatus of claim 24, wherein the information

identifying the remote procedure (214) further comprises a remote procedure name identifier.

34. (ORIGINAL) A program storage device, readable by a computer, tangibly embodying at least one program of instructions executable by the computer to perform method steps of executing a remote procedure (214) in a remote processor (220) from a client process (204) executed in a local processor (218), the method steps comprising the steps of:

accepting a remote procedure call identifying the remote procedure (214) including a global remote procedure locator;

translating the remote procedure call into a CGI-compatible information transfer protocol;

transmitting the translated remote procedure call to the remote processor (220);

interpreting the translated remote procedure call into a remote procedure-compatible format; and

invoking the remote procedure (214) in the remote processor (220).